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SHARP 21K-FD1SF OPERATION MANUAL

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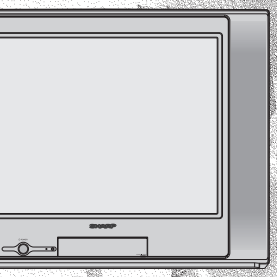
SHARP®

COLOUR TELEVISION

21K-FD1SF
21K-FD1SS

OPERATION MANUAL



Please read this operation manual carefully before using the colour television.

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TINS-B997WJZZ
05P10-MSP

E1 SAFETY PRECAUTIONS

Damage

Turn off the power and unplug the power cord from the wall outlet immediately if the TV set begins to make any unusual noises or gives off smoke or an unusual smell. Then call your dealer for service.

Servicing

To reduce the risk of electric shock, do not remove the back of the cabinet. This TV set contains dangerous voltage.

Unstable surface and shocks

Do not place this TV set on an unstable cart, stand, shelf, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the set. Sharp recommends securing the TV set to a stable surface or wall to prevent the set from falling due to sudden shocks or impact.

Power-cord protection

To prevent electrical shock, do not subject the AC power cord to damage by bending or twisting it, or by placing heavy items on top of it and do not place the AC power cord under the TV set. If the AC power cord becomes damaged, unplug it from the wall outlet immediately and call your dealer for service.

Moisture

To prevent electrical shock, do not use the TV set in an excessively damp place.

Water

To prevent fire or electrical shock, do not place the TV set near a bathroom, swimming pool or other area where it may become wet.

Liquid entry

Do not place a flower vase or anything else containing liquid on the TV set, as liquid spilt on the TV set can cause electrical shock or failure.

Object entry

Never insert or drop any metallic or inflammable objects into the ventilation openings of the TV set, as this can cause fire, electrical shock, or electrical failure.

TV Set position

Do place the TV set onto an even stand, table or track which size is bigger than the TV set.
If the TV set is put onto a smaller size or uneven stand, table or track may cause the TV cabinet distort.
Do not put or insert anything between TV set and the stand, table or track.

Uneven surface and excessive force

Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

Ventilation

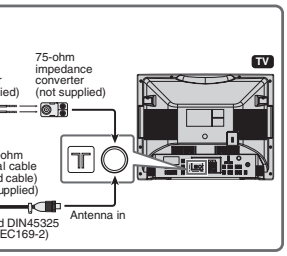
Do not place this TV set in a confined area, such as on a bookshelf or in a built-in case. Leave adequate space behind the TV for proper ventilation.

Fire prevention

To prevent fire, never place any type of candle or naked flames on the top or near the TV set.

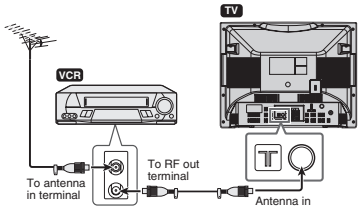
BEFORE OPERATING TELEVISION

ting to an antenna



or antenna uses a 75-ohm coaxial
standard DIN45325 plug (IEC 169-2),
e antenna jack at the rear of the set.

Connecting to an antenna via a VCR

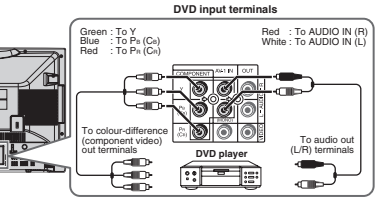


If your outdoor antenna uses a 300-ohm twin-lead flat feeder, connect a 300-ohm to 75-ohm impedance converter and plug it into the antenna jack at the rear of the set.

DVD PLAYBACK

cting to a DVD player

nput terminals (COMPONENT-IN) on the rear of the TV can be used to input high-ages from a DVD player.



Connecting the video terminals

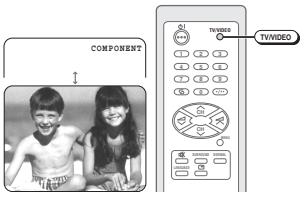
DVD input terminals		DVD player
COMPONENT-IN VIDEO	Y	Y or Y/Y
	PB(CB)	PB(CB) or B-Y/Pb
	PR(CR)	PR(CR) or R-Y/Pr

ng DVD Playback

TV/VIDEO) to select "COMPONENT", DVD creen.

the DVD player and begin playback.

ecting the TV to a DVD player via the NT-IN terminals, the video and audio from the cannot be output through the Audio/Video out the TV.

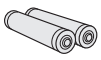


he RF terminal connection, set the TV to channel zero to make initial adjustments for the VCR.

E4 ACCESSORIES

The following accessories are included with this television.

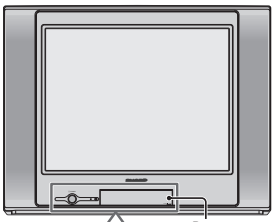
Remote Control


Size-AA batteries

Operation manual

E5 PART NAMES

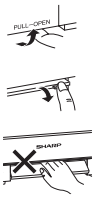
TV set



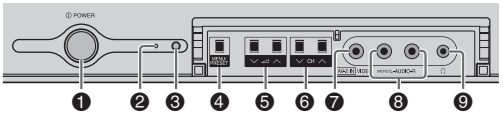
To open the door
Using the projection located under the "PULL-OPEN" indication, pull and lift the door open.

To close the door
Using the projection, lower the door until closed.

Caution:
- When opening or closing the door, do not insert your fingers into the gap between the door and front panel. This may result in an injury.



Bottom



1. (POWER) (I) **POWER switch**
   Turns on and off the main power.
2. **Power indicator**
   Power can be turned on by the remote control when the indicator is dimly lit.
3. **Infrared sensor window**
   Receives the infrared wave from the remote control.
4. (MENU/PRESET) **MENU/PRESET button**
   Tunes the channels.
   Used for MENU setup.
5. (▲) / (▼) **Volume up/down buttons**
   Adjusts the volume.
   Makes adjustments in PRESET.
6. (CH ∧) / (CH ∨) **Channel up/down buttons**
   Selects the channels.
   Tunes or sets the channels.
7. **Video input terminal (AV-2 IN)**
   Connects to a camcorder, video game, etc.
8. **Audio input terminals (AV-2 IN)**
   Connects to a camcorder, video game, etc.
9. **Headphone jack**
   Use to listen to the audio with headphone.

Using headphone

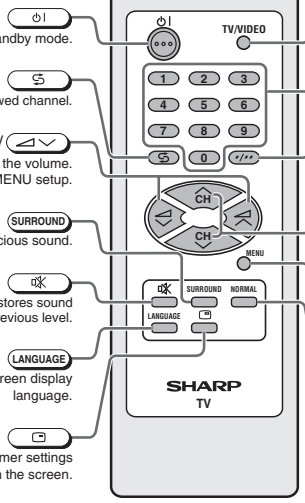
Insert headphone plug into headphone jack to listen to audio with headphone.
- The audio from the speakers is turned off.

[Behind the door]

NOTE
- To avoid injuring your hearing, do not put on the headphone before plugging them into the headphone jack and before the power is turned on.

PART NAMES (Continued)

e control



Infrared transmitter window
Aim this window at the infrared sensor window on your TV set.

on or to Standby mode.

viously viewed channel.

Adjusts the volume.
Used for MENU setup.

a more spacious sound.

und and restores sound to previous level.

s the on-screen display language.

annel and timer settings on the screen.

TV/VIDEO
Switches between TV broadcasts and A/V input programmes.

Number buttons

Switches between one- or two-digit mode channel selection.

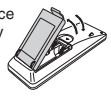
CH / **CH**
Selects the channel.
Used for MENU setup.

MENU
Calls the MENU screen.

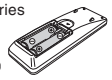
NORMAL
Resets all settings.

Installing batteries

1 Pull up or replace back the battery cover.



2 Insert two batteries (size AA). Be sure to match the battery ⊕/⊖ terminals.



dicator quick reference

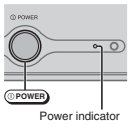
Remote control	TV set	Operation
CH / CH	CH	Used to select items.
		Used to adjust or enter the selected items.
MENU	MENU/PRESET	Used to return to previous screen or exit Menu screen.

NOTE
- OSD: On-Screen Display
- Please refer to this table for all the OSD operation in this manual.

E6 BASIC OPERATION

Turn on the power

[TV Set (Bottom)]



- When the power indicator is off, press POWER.
- When the power indicator lights up dimly, press ⏻ on the remote control. The power indicator changes to bright and a picture appears.

On-screen display language selection

Remote Control

- Press LANGUAGE to select desired language.
- Pressing LANGUAGE changes the language as shown below.

ENGLISH → 中 文 → FRANÇAIS → РУССКИЙ → BAHASA MELAYU → العربية →

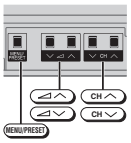
TV set

- Press MENU/PRESET for more than two seconds, the language select mode appears.
- Press CH / CH to select desired language.
- Pressing MENU/PRESET changes the screen as shown below.

Language → AUTO → MANUAL → Normal screen

- Press MENU/PRESET until normal screen appears.

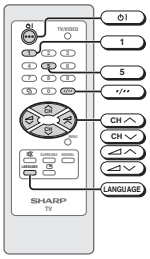
[Behind the door]



Channel selection

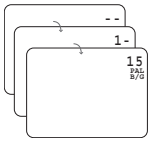
1 Using CH / CH

- Press CH and channels change as shown below.
  1 → 2 → ... → 98 → 99 → AV1 (or COMPONENT) → AV2 → 0 → 1 → 2 ...
- Press CH and channels change as shown below.
  1 → 0 → AV2 → AV1 (or COMPONENT) → 99 → 98 → ... → 2 → 1 → 0 ...



2 With the number buttons (on remote control)

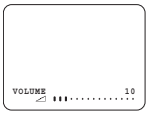
- To select a one-digit channel, such as 5, press 5. If "5-" is indicated, press -/-- to select one-digit input, and then press 5 again.
- To select a two-digit channel, such as 15, press -/-- to select the two-digit input. Press 1, and then press 5.



Adjusting volume

1 Adjust volume using ◁ / ▷.

- The volume bar disappears approximately three seconds after the volume has been adjusted.



NOTE
- When the power indicator lights up dimly, either CH / CH on the TV can be pressed to turn on the power.
- Channels that have been skipped cannot be selected by CH / CH.
- The AV1 (or COMPONENT), AV2 input channels cannot be selected using CH / CH on the remote control. Use TV/VIDEO to select these channels.

14/9/05, 12:04 PM

PRESETTING CHANNELS

hannel tuning

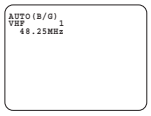
ally tunes in and presets receivable TV stations.

ENU/PRESET) for more than two seconds.

ENU/PRESET) again to display AUTO mode screen.

g (MENU/PRESET) changes the screen as shown below.

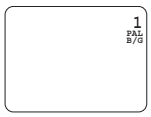
ge ⟶ AUTO ⟶ MANUAL ⟶ Normal screen



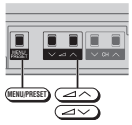
/ on TV set.

TV stations in your area that can be received by set are automatically preset between channels 1

reen shows whatever is on channel 1 when auto l preset is finished.



[Behind the door]



channel tuning

anual channel tuning to a desired TV station.

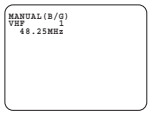
ENU/PRESET) for more than two seconds.

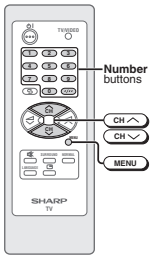
ENU/PRESET) twice to display MANUAL mode

g (MENU/PRESET) changes the screen as shown below.

ge ⟶ AUTO ⟶ MANUAL ⟶ Normal screen

CH / CH or number buttons to channel position.





/ on TV set to locate channel you wish to preset to current l position.

is initiated and when a TV signal is received during the search, the search stops.

steps 3 and 4 above, to preset channel positions for other broadcasts.

ENU/PRESET) again to display normal screen.

TEM may not have been set correctly, if noise can be heard or if there is no sound. In such case, adjust SYSTEM using the (MENU) on the remote control.
ET stores all receivable channels including those which may be very weak and not clearly visible. To hose channels designated for the local viewing region, use MANUAL PRESET.

SETTING AND ADJUSTMENT

Channel setting

Enables individual channel setting.

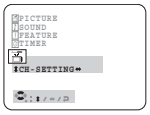
1 Press (MENU) to call MENU screen.

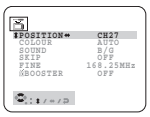
2 Press (CH) / (CH) to select "CH-SETTING".

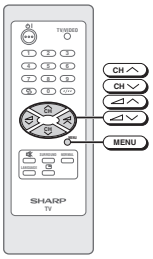
3 Press / to display CH-SETTING menu.

4 Press (CH) / (CH) to select desired setting.

5 Each time you press / , setting for individual items changes as follows:



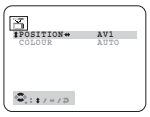




- **POSITION**
  The channel position changes to the higher or lower number.
- **COLOUR**
  AUTO ⟷ PAL ⟷ SECAM ⟷ N443 ⟷ N358
- **SOUND**
  B/G ⟷ I ⟷ D/K ⟷ M
- **SKIP**
  ON ⟷ OFF
  Channel numbers with a "✤" mark on the left are set to SKIP. To turn off SKIP, press the number buttons to select the desired channel and then set "SKIP" to "OFF".
- **FINE**
  The frequency changes to allow fine tuning.
- **BOOSTER**
  Picture quality may improve in regions with weak signal strength using this function.
  ON(I) ⟶ ON(II) ⟶ OFF
  - If ON(I) is selected and the picture quality is still not good enough, please switch to ON(II).
  - If signal strength is strong enough for the selected channel, the effect is negligible and may produce instability. In such a case select "OFF".

6 Press (MENU) until normal screen appears.

- When you select AV1, AV2 for the channel position, the CH-SETTING menu changes as shown on the right and the colour mode changes in the following order:
  AUTO ⟷ PAL ⟷ SECAM ⟷ N443 ⟷ N358



NOTE

- Switching COLOUR system:
  Set the system to "AUTO" for normal TV reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the TV set. When the picture is not stable, switching to an appropriate system may improve the picture quality.
- When using FINE, the channel number changes from green to yellow.

SETTING AND ADJUSTMENT (Continued)

or Sound adjustment

MENU) to call MENU screen.
CH) / (CH) to select "PICTURE" or "SOUND".
) / ( ) to display PICTURE or SOUND menu.
CH) / (CH) to select adjustment items.
using ( ) / ( ).
r approximately three seconds to return to PICTURE/SOUND menu.
steps 4 and 5 above to adjust other items.
MENU) until normal screen appears.

able lists the adjustment items shown in the PICTURE/SOUND menu and ge as you press ( ) / ( ).

u table

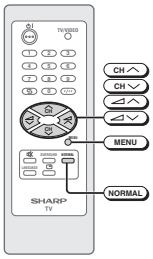
	Press ( )		Press ( )
	DYNAMIC ⟷ SOFT ⟷ STANDARD		
To decrease contrast			To increase contrast
For less colour intensity			For more colour intensity
For less brightness			For more brightness
To move tint toward red			To move tint toward green
For less sharpness			For more sharpness
	ON ⟷ ON ⟷ OFF		(See note below)
To more reddish background			To more bluish background

y be selected and adjusted when receiving NTSC broadcasts.
eduction (ANR)
e generated on images when playing deteriorated video tapes or when adcasts with relatively weak signals. In these cases, set ANR to "ON" or ce the noise. However, when receiving good images without noise, you r image quality by turning OFF this feature. If ON is selected and the with noise, please switch to ON.
P can only be adjusted on PICTURE menu.
AST, COLOUR, BRIGHTNESS, TINT, SHARPNESS and WHITE TEMP e set differently for individual AV Mode setting.

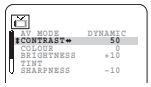
table

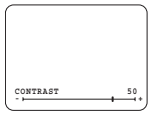
	Press ( )		Press ( )
	DYNAMIC ⟷ SOFT ⟷ STANDARD		
	ON ⟷ ON ⟷ OFF		
To decrease treble			To increase treble
To decrease bass			To increase bass
To shift balance toward left			To shift balance toward right

UND, TREBLE, BASS and BALANCE setting can be set differently for Mode setting.

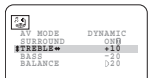


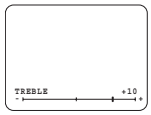
[PICTURE menu screen]





[SOUND menu screen]





MAL) while a PICTURE/SOUND selection is displayed, only the selected mode is reset to the standard ng) position.
MAL) while a PICTURE/SOUND menu screen is displayed will reset the individual AV Mode setting to the tory-setting) position.

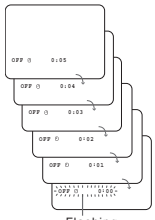
E9 TIMER SETTING

Off timer

Automatically turns power off after a set length of time has passed.

1 Press (MENU) to call MENU screen.
2 Press (CH) / (CH) to select "TIMER".
3 Press ( ) / ( ) to display TIMER menu.
4 Press (CH) / (CH) to select "OFF ".
5 Press ( ) / ( ) to set time for TV to turn off.
- Maximum time that can be preset is 12 hours and 50 minutes. Timer start to count down after setting.

6 Press (MENU) until normal screen appears.
- Five minutes before the preset length of time expires, the remaining time appears on the screen.
- A flashing display of the remaining time appears during the last few seconds. When the preset length of time has passed, the TV set enters the Standby mode.



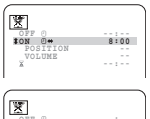
Flashing

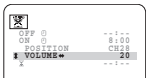
On timer

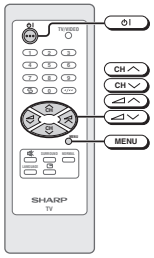
Automatically turns power on after a set length of time has passed.

1 Repeat step 1 to 3 of OFF TIMER.
2 Press (CH) / (CH) to select "ON ".
3 Press ( ) / ( ) to set time for TV to turn on.
- Maximum time that can be preset is 12 hours and 50 minutes. Timer start to count down after setting.

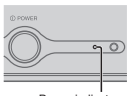
4 Press (CH) / (CH) to select "POSITION".
5 Press ( ) / ( ) to set the channel.
6 Repeat step 4 to 5 above to select and set the "VOLUME".
7 Press (MENU) until normal screen appears.
8 Press ( ) to put TV set into Standby mode.
- Power indicator will flash to indicate On Timer is set.
- When the preset length of time setting has passed, the power turns on and a picture appears on the screen.
- The ON TIMER speaker volume gradually increases from zero to preset volume.







[TV Set (Bottom)]



Power indicator (Flashing)

NOTE
- The Off timer is cancelled if the power is turned off or set to the Standby mode using ( ) on the remote control or (POWER) on the TV set, or if the power is otherwise interrupted.
- The On Timer is cancelled if the power is turned off using (POWER).
- If the TV set is turned on by the On Timer, then the TV set will be automatically turned off in two hours if no buttons are pressed on the TV set or remote control.

14/9/05, 12:04 PM

TIMER SETTING (Continued)

der on-screen timer

now when a preset length of time has passed by displaying a countdown timer on . This is useful for timer cooking while you watch TV.

step 1 to 3 of OFF TIMER.

CH ^ / CH v to select "⧖".

◁ / ▷ to set time.

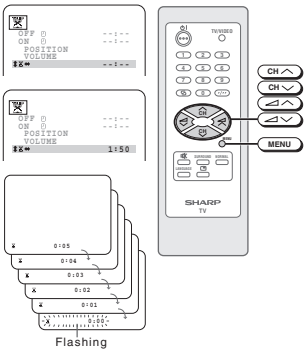
um time that can be preset is 12 hours and 50 s.

ht example shows that the Reminder will be ed after one hour and 50 minutes.

MENU until normal screen appears.

nutes before the preset length of time expires (in mple, after one hour and 45 minutes) and each thereafter, the remaining time appears on the for several seconds.

he preset length of time has passed, "⧖ 0:00" in red.



Flashing

FEATURES

creen

ally turns the screen blue if a broadcast signal is not received.

MENU to call MENU screen.

CH ^ / CH v to select "FEATURE".

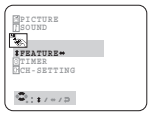
◁ / ▷ to display FEATURE menu.

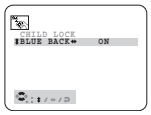
CH ^ / CH v to select "BLUE BACK".

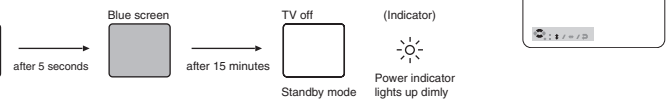
◁ / ▷ to select "ON" or "OFF".

MENU until normal screen appears.

E BACK is set to "ON".







r also works in the Standby mode. Power is automatically turned on five minutes before the preset length s. The TV set automatically returns to the Standby mode approximately 1 minute if no buttons are e TV set or remote control.

r is cancelled if ⏻POWER on the TV set is pressed or if the power is otherwise interrupted.

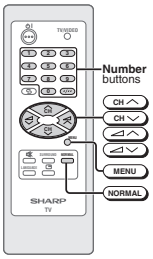
n due to weak signals and too much noise may activate BLUE BACK, despite the presence of a nal. To continue watching TV under these conditions, switch "BLUE BACK" to "OFF".

er is set, the OFF TIMER setting has priority over BLUE BACK.

FEATURES (Continued)

Child lock

Preventing children from watching TV.



Setting the CHILD LOCK mode (For the first time)

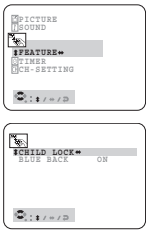
1 Press MENU to call MENU screen.

2 Press CH ^ / CH v to select "FEATURE".

3 Press ◁ / ▷ to display FEATURE menu.

4 Press CH ^ / CH v to select "CHILD LOCK".

5 Press ◁ / ▷ to display CHILD LOCK menu.



6 Press CH ^ / CH v to select desired setting.

- **On TV**
  Press ◁ / ▷ to select "On TV" to "ON" or "OFF".
  - ON: "On TV" will lock the entire TV for viewing.
  - OFF: "On TV" deactivated.
- **PASSWORD**
  Enter 4 digits PASSWORD using **Number** buttons (0~9) on the remote control. (For example: 0000)
  - Press NORMAL to reset the entered number to "0000".

7 Press MENU until normal screen appears.

- The CHILD LOCK mode will be activated after the TV is turned off and on again.

To turn OFF or to change setting of CHILD LOCK mode

1 While "CHILD LOCK ON" screen appear.

2 Enter 4 digits PASSWORD using Number buttons (0~9) on the remote control. (For example:0000)

- Press ·/·· to clear the entered number.
- If the wrong PASSWORD is entered, "PASSWORD INCORRECT" screen will appear. Input the PASSWORD again in this case.

NOTE

- If you forget your PASSWORD, please input "2398" to enter, then change to new PASSWORD.

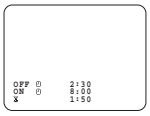
USEFUL FEATURES

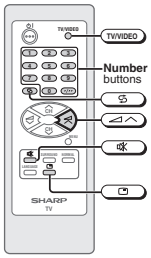
el / Timer display

he current channel number, the timer, and other settings on the screen.

.

he remaining on the Off timer, On timer, and
der appears on the screen.
no timer is set, the channel number, colour and
system appear on the screen.
again to clear these current settings
on the screen.



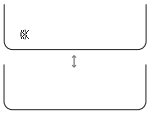


again, the channel number, colour
und system appear on the screen.

he sound.

.

pears on the screen, and the sound is silenced.



again, the volume returns to its
us level.

ill be cancelled if the is pressed at any time.

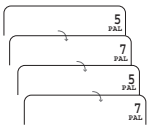
el recall

back to the channel you were watching just before the current channel.

.

l previously viewed returns to the screen.

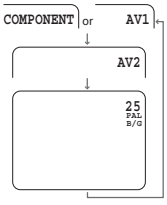
g from channel 5 to channel 7, is pressed,
vill change to channel 5. Press again to
nnel 7.



deo selection

between TV broadcasts and AV input programmes.

ou press the (TV/VIDEO), the input switches
1 (or COMPONENT), AV2 and TV



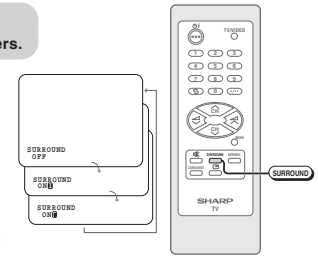
E11 USEFUL FEATURES (Continued)

Surround sound

Produces a virtual surround sound from the TV's speakers.

Each time you press (SURROUND), the mode changes between ON, ON and OFF.

OFF : Produces normal sound.
ON : Setting to this mode during stereo signal reception produces a spacious sound, making the most of the speakers' performance.
ON : Setting to this mode during monaural signal reception creates monaural sound that is similar to stereophonic sound.

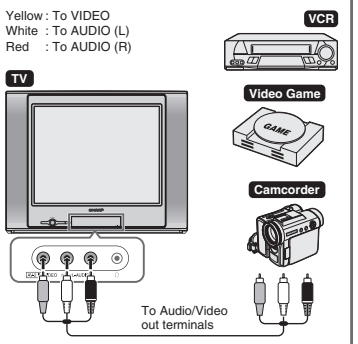


E12 CONNECTIONS

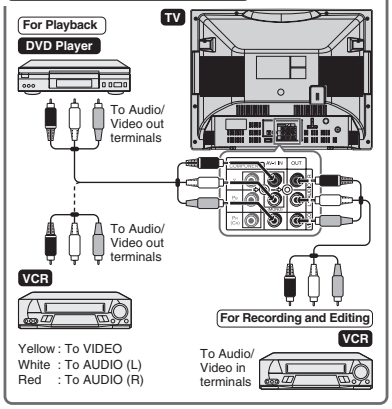
Connecting to video equipment

Enjoy playback from a video disc player, VCR or other video equipment by connecting them to this TV set using the Audio/Video in terminals.

Example use of front terminals



Example use of rear terminals



NOTE

- For playback of monaural audio, connect the external source to the audio input left terminal on the front or rear of the TV set (MONO) to hear the same sound from both speakers.
- The audiovisual cords required to connect the TV set with video equipment may differ from those shown in the above diagram. See the operation manual of your video equipment for connection details.
- The above recording and editing connections are for intended solely for personal use and not for the illegal copying of audiovisual material protected by copyright laws.

TROUBLESHOOTING

ing problems do not always indicate a hardware failure. Therefore, please use the ooting guide below before calling for repair service.
lowing the guide none of the remedies work, unplug the TV set and call for service.

ick rvice eck List

ble Causes/Remedies	Problems: Remote control does not work.	Bars on screen.	Picture distorted.	Picture rolls vertically.	No colour.	Poor reception on some channels.	Picture weak.	Picture lines or streaks.	Picture ghosting.	Picture blurred.	Sound OK, picture poor.	Picture OK, sound poor.	No picture or sound.
channel to check for possible station			●	●	●	●	●	●	●	●	●	●	●
gged in. er OFF.	●												●
switch of TV not ON.	●												●
ot connected to terminal at the back et.					●	●	●		●		●		●
ntenna is used, check for broken		●	●	●	●	●	●	●	●	●	●		●
ocal interference.		●		●		●		●	●		●	●	
using the ⏻ **POWER** switch, ON again after a minute.	●												●
LOUR control.					●		●				●		
eries in the remote control.	●												
ing to correct.			●		●		●			●	●		
etting in picture mode might be all the minus side. Press the button on the remote control to											●		●
e volume.												●	●

quipped with a microprocessor. Its performance could be adversely affected by external se or interference. If this should happen, unplug the unit and plug it in again after a few

E14 SPECIFICATIONS

MODEL		21K-FD1SF	21K-FD1SS
Receiving System		World multi 21 system	
TV Broadcasts/ VCR Playback		PAL-I PAL-B/G PAL-D/K	SECAM-B/G SECAM D/K, K1 NTSC-M (NTSC Standard)
VCR Playback		NTSC 4.43/5.5 MHz/60 Hz NTSC 4.43/6.0 MHz/60 Hz NTSC 4.43/6.5 MHz/60 Hz NTSC 4.43/5.5 MHz/50 Hz NTSC 4.43/6.0 MHz/50 Hz NTSC 4.43/6.5 MHz/50 Hz	NTSC 3.58/5.5 MHz NTSC 3.58/6.0 MHz NTSC 3.58/6.5 MHz SECAM-I (6.0 MHz)
VCR Playback (Using Video-in terminals)		SECAM-L (French SECAM)	
Laserdisc Player Playback (Using RF-in terminals)		PAL 5.5 MHz/60 Hz PAL 6.0 MHz/60 Hz PAL 6.5 MHz/60 Hz NTSC 3.58/4.5 MHz/50 Hz	
Reception Channels			
PAL-B/G SECAM-B/G	VHF	E2–E12 ch	
	UHF	E21–E69 ch	
PAL-D/K SECAM-D/K, K1	VHF	C1–C12 ch, R1–R12 ch	
	UHF	C13–C57 ch, R21–R69 ch	
PAL-I	VHF	B–J ch	
	UHF	21–69 ch (Hong Kong)	
NTSC	VHF	2–13 ch (U.S), 1–12 ch (Japan)	
	UHF	14–69 ch (U.S), 13–62 ch (Japan)	
CATV		S1–S20 ch, S21–S41 ch (Hyper)	
Receiving Frequency		48.25 MHz – 863.25 MHz	
Channel Tuning		100-Channel Electronic Tuner with Full Auto Tuning System	
Picture Tube		21-Inch Flat CRT	
Terminals		Audio/video input × 2 (front × 1, rear × 1), Audio/video output × 1 (rear), Headphone jack × 1 (front), DVD input (COMPONENT-IN) × 1 (rear)	
Sound Output		7.5 W (RMS) × 2, total 15 W (RMS)	
Power Source		AC 110 – 240V, 50/60 Hz	
Power Consumption		112 W	
Dimensions		605 (W) × 468 (H) × 487.5 (D) mm	
Weight		22.5 kg (Approx.)	

NOTE

- Design and specifications are subject to change without notice.
- Receiving system: These receiving systems, encompassing all currently available technology, include those with planned broadcast, videotape and laserdisc hardware and software.

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